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COVER

Flowering and fruiting stages of Senecio vulgaris L. (common groundsel). It is a member of the Compositae (Asteraceae), commonly called the sunflower family, which is now distributed worldwide. These plants contain macrocyclic pyrrolizidine alkaloids which, when consumed, are known hepatotoxins to both humans and livestock. Trans-4-hydroxy-2-hexenal, a metabolite recently isolated from the macrocyclic pyrrolizidine alkaloid senecionine appears to play an important role in the hepatotoxicity. See page 472. [A. Mariassy, in collaboration with H. J. Segall, Veterinary Pathology and Veterinary Pharmacology and Toxicology, University of California, Davis 95616]